BRUHAT BENGALORU MAHANAGARA PALIKE

Name of Work : Construction of Public Toilets in Chowdeshwari ward No-02 of Yelahanka Sub Division

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
1	KSRB 2-2.2: Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1 (b) / 2.3.5 (P.5/I.2.3 PW,P & IWTD, SOUTH ZONE - SR 2018-19)								
	For Toilet Room - Kenchenahalli Burial Ground								
	For Foundation	Cum							
	LW		2	4.50	1.20	0.90	9.72		
			1	1.00	1.20	0.90	1.08		
	SW		3	1.80	1.20	0.90	5.83		
	Debris		1	48.00	5.00	0.45	108.00		
							124.63	**322.92**	**40246.00**
	Basic Rate	299.00							
	Add Area Weightage 8%	23.92							
	Total	322.92							
2	KSRB 4-1.3: Providing and laying in position plain **cement concrete of mix 1:4:8** with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (P.12/I.4.3 PW, P & IWTD, SOUTH ZONE -SR 2018-19)								
	For Toilet Room - Kenchenahalli Burial Ground								
	For Foundation	Cum							
	LW		2	4.50	1.20	0.15	1.62		
			1	1.00	1.20	0.15	0.18		
	SW		3	1.80	1.20	0.15	0.97		
	Flooring Concrete		1	3.80	2.60	0.10	0.99		
	G.T.(A + B)						**3.76**	**5510.16**	**20718.00**
	Basic Rate	5102.00							
	Add Area Weightage 8%	408.16							
	Total	5510.16							
3	KSRB 5.2-3 : Providing and constructing granite / **trap / basalt size stone masonry** in foundation with cement mortar 1:6, stone hammered dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 (P.23/I.5.6 PW, P & IWTDSOUTHZONE -SR 2018-19)								
	For Toilet Room - Kenchenahalli Burial Ground								
	For Foundation 1st Step	Cum							
	LW		2	4.20	0.90	0.45	3.40		
			1	1.00	0.90	0.45	0.41		
	SW		3	1.80	0.90	0.45	2.19		
	For Foundation 2nd Step	Cum							
	LW		2	4.20	0.60	0.60	3.02		
			1	1.00	0.60	0.60	0.36		

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
	SW		3	1.80	0.60	0.60	1.94		
							11.32	4963.68	**56199.00**
	Basic Rate	4596.00							
	Add Area Weightage 8%	367.68							
	Total	4963.68							
4	KSRB 2.3: Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. specification. No. KBS 2.9 (P.6/I.2.10 PW, P & IWTD,SOUTH ZONE - SR 2018-19)								
	For Toilet Room - Kenchenahalli Burial Ground								
		Cum	Qty Vide Item No.7				**124.63**	217.08	**27055.00**
	Basic Rate	201.00							
	Add Area Weightage 8%	16.08							
	Total	217.08							
5	KSRB 4.2.1 : Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregates @0.47cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and footing , Pedestal staircase, lintels, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, bed blocks, anchor blocks, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1, 4.6 (P.13/I.4.10 PW, P & IWTD, SOUTH ZONE - SR 2018-19)								
	For Toilet Room - Kenchenahalli Burial Ground	Cum							
	For Plinth								
	For Foundation 1st Step								
	LW		2	4.20	0.60	0.15	0.76		
			1	1.00	0.60	0.15	0.09		
	SW		3	1.80	0.60	0.15	0.49		
	For Lintel								
	D		2	1.20	0.20	0.20	0.10		
	V		4	0.90	0.20	0.20	0.14		
	For Chajja								
	D		1	1.20	0.60	0.10	0.07		
	For Slab		1	4.20	3.60	0.15	2.27		
							3.91	**6276.96**	**24555.00**
	Basic Rate	5812.00							
	Add Area Weightage 8%	464.96							
	Total	6276.96							
6	KSRB 4.9.2 : Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 (P.17/I.4.46.2 PW, P & IWTD,SOUT ZONE -SR 2018-19)								
	Consider 135kg/Cum	Sqm	1.00	3.91	135.00		528.12		
	Basic Rate	70966.00					**0.53**	**76643.28**	**40477.00**
	Add Area Weightage 8%	5677.28							
	Total	76643.28							

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
7	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (P.15/I.4.28 PW, P & IWTD SOUTH ZONE -SR 2018-19)								
	For Toilet Room - Kenchenahalli Burial Ground								
	For Plinth Beam		4	4.20		0.15	2.52		
			2	1.00		0.15	0.30		
			6	1.80		0.15	1.62		
	Total (a + b)						**4.44**	278.64	**1237.00**
	Basic Rate	258.00							
	Add Area Weightage 8%	20.64							
	Total	278.64							
8	KSRB 4-6.4: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (P.15/I.4.31 PW, P &IWTD SOUTH ZONE -SR 2018-19)								
	For Toilet Room - Kenchenahalli Burial Ground	Sqm							
	For Lintel								
	D		4	1.20		0.20	0.96		
	V		8	0.90		0.20	1.44		
							2.40	386.64	**928.00**
	Basic Rate	358.00							
	Add Area Weightage 8%	28.64							
	Total	386.64							
9	KSRB 4-6.3 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness above 200 mm including cost of all materials, labour complete as per Specification. (P.15/I.4.30 PW, P & IWTD, SOUTH ZONE -SR 2018-19)								
	For Toilet Room - Kenchenahalli Burial Ground	Sqm							
	For Chajja								
	D		1	1.20	0.60		0.72		
	Roof Slab		1	4.20	3.60		15.12		
							15.84	475.20	**7527.00**
	Basic Rate	440.00							
	Add Area Weightage 8%	35.20							
	Total	475.20							
10	KSRB 5-14: Providing and constructing load bearing with solid concrete blocks having block density not less than 1800 kg/cum having a minimum avarage compressive strength of 4.00 Newton /sqmm conforming to I.S: 2185 (part-1): 2005 and constructed with CM 1:4 as per 2572:2005 including cost of materials, labour charges, scaffolding, curing hire charges of machinery etc., complete as per specifications KBS NO.5.4 - do - with solid concrete blocks of size 400 x 150 x 200 mm (P.25/I.5.26.1PW P& IWTD,SOUTH ZONE - SR 2018-19)								
	For Toilet Room - Kenchenahalli Burial Ground	Cum							
	LW		2	4.20		3.00	25.20		
			1	1.80		3.00	5.40		
	SW		2	2.60		3.00	15.60		
			1	1.50		3.00	4.50		
	Parapet Wall		2	4.20		0.75	6.30		

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
			2	2.60		0.75	3.90		
	Deduct Openings								
	Door		-2	0.90		2.10	-3.78		
	Ventilators		-4	0.60		0.30	-0.72		
	Parapet door		-1	0.90		0.75	-0.68		
							55.73	**1038.96**	**57896.00**
	Basic Rate	962.00							
	Add Area Weightage 8%	76.96							
	Total	1038.96							
11	KSRB 7.10 : Providing and fixing in position anodized aluminium windows and ventilators as per approved drawings with sliding shutters using double track window frame section of size 61.85x31.75mm. with 1.2mm thick, bottom section weight 0.695 kg/rn, sides and top sections 1.3 mm. thick weight 0.659 kg/rn; and shutter comprising top and bottom section of size 40mmx18mm, 1.25mm thick 0.417 kg./m; shutter outer side 40mmx18mm, 1.25mm.thick weight 0.417 kg/rn, shutter interlock section 40rnmx26.7mm, 1.1mm thick, weight 0.469 kg/rn. the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; glass for shutters fitted with rubber beading alums mitred subdividing the frame tenonned and rivetted in the assembled frame stiffened with end clips at corners angles etc., and t per speciations. Specification No. KBS (P.32-33/I.7.10.1PW, P & IWTD, SOUTH ZONE -SR 2018-19)								
	For Toilet Room - Kenchenahalli Burial Ground	Sqm							
	Ventilators		4	0.60	0.30		0.72		
							0.72	4607.28	**3317.00**
	Basic Rate	4266.00							
	Add Area Weightage 8%	341.28							
	Total	4607.28							
12	KSRB 7.9 : Providing and fixing M.S. grill work for windows and ventilators weighing 21 kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications. Specification No. KBS 7.12 (P.32/I.7.9 PW, P & IWTD, SOUTH ZONE -SR 2018-19)								
	Toilet Room	Kgs							
	Ventilators		4	0.60	0.30		0.72		
							0.72		
	Basic Rate	95.00	at 21 kgs /sqm				**15.12**		
	Add Area Weightage 8%	7.60				say	**15.12**	102.60	**1551.00**
	Total	102.60							
13	KSRB 7.3 : Providing and fixing 1mm thick M.S. sheet garage door with frame and diagonal braces of size 40x40x6 mm angle Iron, 3.15mm thick M.S. Gusset plates at the junctions and corners, with handles, stoppers and locking arrangements etc., including applying a priming coat of red lead paint cost of materials, labour, HOM complete as per specifications. (P.33/I.7.3 PW, P & IWTD, SOUTH ZONE -SR 2018-19)								
	For Toilet Room - Kenchenahalli Burial Ground	Kgs							
	Doors		2	0.90		2.10	3.78		
							3.78	**2947.32**	**11141.00**
	Basic Rate	2729.00							
	Add Area Weightage 8%	218.32							
	Total	2947.32							

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
14	SRB15-3-13: Providing **12mm thick cement plaster** in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering,: Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications (P.114/I.15.21 PW, P & IWTD, SOUTH ZONE -SR 2018-19)								
	Toilet Room Ceiling Plastering	Sqm							
			1	3.80	2.60		9.88		
	Total (a + b)						**9.88**	253.80	**2508.00**
	Basic Rate	235.00							
	Add Area Weightage 8%	18.80							
	Total	**253.80**							
15	KSRB15-7: Providing **lime rendering for plastering** to wall and ceiling, including cost of materials, labour, curing complete as per specifications.(P.115/I.15.33 PW, P& IWTDSOUTH ZONE -SR 2018-19)								
	Toilet Room Ceiling Plastering	Sqm							
			1	3.80	2.60		9.88		
	Inside Plastering	Sqm							
	LW		2	3.80		0.90	6.84		
			2	1.80		0.90	3.24		
	SW		2	2.60		0.90	4.68		
			2	1.50		0.90	2.70		
							27.34	**34.56**	**945.00**
	Basic Rate	32.00							
	Add Area Weightage 8%	2.56							
	Total	**34.56**							
16	KSRB 15-3.6 : Providing 15mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. (P.113/I.15.14 PW, P & IWTD, SOUTH ZONE -SR 2018-19)								
	Inside Plastering	Sqm							
	LW		2	3.80		3.00	22.80		
			2	1.80		3.00	10.80		
	SW		2	2.60		3.00	15.60		
			2	1.50		3.00	9.00		
	Parapet Wall		2	3.80		0.75	5.70		
			2	2.60		0.75	3.90		
	External Plastering Plastering	Sqm							
	LW		2	4.20		4.85	40.74		
	SW		2	3.00		4.85	29.10		
	External Chajja		1	4.20		0.60	2.52		
	Deductions								
	D		-4	0.90		2.10	-7.56		
	V		-8	0.60		0.30	-1.44		
	Parapet door		-2	0.90		0.75	-1.35		
	Total (a + b)						**129.81**	**224.64**	**29161.00**
	Basic Rate	208.00							
	Add Area Weightage 8%	16.64							
	Total	**224.64**							
17	KSRB 14.14-6: Providing Ceramic tiles of size 30x30 cms of approved make, shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications. Specification No. KBS (P.106/I.14.36.2 PW, P & IWTD, SOUTH ZONE -SR 2018-19)								
	Toilet Room Flooring	Sqm							

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
			1	3.80	2.60		**9.88**		
							9.88	**1306.80**	**12911.00**
	Basic Rate	1210.00							
	Add Area Weightage 8%	96.80							
	Total	**1306.80**							
18	KSRB 14-17.2: Providing skirting, dado, rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications.. Specification No. KBS 14.16, 14.17 Colour glazed tiles 30×60cms 6mm thick with border of size 30×10cms. (P.106/I.14.41.2 PW, P & IWTD, SOUTH ZONE -SR 2018-19)								
	Dado Portion - Toilet Rooms	Sqm							
			2	3.80		2.10	15.96		
			2	2.60		2.10	10.92		
			2	1.50		2.10	6.30		
			2	0.90		2.10	3.78		
							36.96	1762.56	**65144.00**
	Basic Rate	1632.00							
	Add Area Weightage 8%	130.56							
	Total	1762.56							
19	KSRB 15-13.3 : Providing and applying two coats dry distemper of approved brand, and shade on wall surface including priming coat and whitening after throughly brooming the surface to remove all dirt, dust, mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications.(P.118/I.No.15.47.1 PW, P & IWTD, SOUTH ZONE -SR 2018-19)								
	Inside Wall	Sqm							
	LW		2	3.80		0.90	6.84		
			2	1.80		0.90	3.24		
	SW		2	2.60		0.90	4.68		
			2	1.50		0.90	2.70		
							17.46	**78.84**	**1376.55**
	Basic Rate	73.00							
	Add Area Weightage 8%	5.84							
	Total	78.84							
20	KSRB 15-16.1 : Providing and finishing **external walls in two coats with waterproof cement paint** of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. do- with primer (P.120/I.No.15.53.3 PW, P & IWTD, SOUTH ZONE -SR 2018-19)								
	External Walls	Sqm							
	LW		2	4.20		4.85	40.74		
	SW		2	3.00		4.85	29.10		
	External Chajja		1	4.20		0.60	2.52		
	Deductions								
	D		-1	0.90		2.10	-1.89		
	V		-4	0.60		0.30	-0.72		
	Parapet door		-2	0.90		0.75	-1.35		
							68.40	**110.16**	**7534.94**
	Basic Rate	102.00							
	Add Area Weightage 8%	8.16							
	Total	110.16							

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
21	KSRB 11-5 : Providing and fixing white vitreous china clay, **water closet European type** (Pedestal type, P-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 40mm diameter flush bend with fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. (P.79/I.No.12.5 PW, P & IWTD, SOUTH ZONE -SR 2018-19)								
	For Toilet	Each	1				1.00		
							1.00	**5352.48**	**5352.48**
	Basic Rate	4956.00							
	Add Area Weightage 8%	396.48							
	Total	5352.48							
22	KSRB 11-11.1 : Providing and fixing white vitreous china clay, flat back wash basin size 630x450mm with a pair of 15mm C.P brass pillar taps with C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. (P.82/I.No.12.23 PW, P & IWTD, SOUTH ZONE -SR 2018-19)								
	For Toilet	Unit	1				1.00		
							1.00	**4327.56**	**4327.56**
	Basic Rate	4007.00							
	Add Area Weightage 8%	320.56							
	Total	4327.56							
23	KSRB 13-11 : Providing and placing on terrace, **polyethylene water storage tanks** as per IS 12701 : 1996 with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM and testing complete as per specifications. (For 1000 litre capacity) (P.96/I.No.13.78 PW, P & IWTD, SOUTH ZONE -SR 2018-19)								
	For Toilet	Unit	1				1.00		
							1.00	**7374.24**	**7374.24**
	Basic Rate	6828.00							
	Add Area Weightage 8%	546.24							
	Total	7374.24							
24	Providing and fixing **chorinated poly vinyl Chloride (CPVC) pipes** conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and making good walls) (P.99/I.No.13.86.3 PW, P & IWTD, SOUTH ZONE -SR 2018-19)								
	For Toilet	Mtr	1	50.00			50.00		
							50.00	**316.44**	**15822.00**
	Basic Rate	293.00							
	Add Area Weightage 8%	23.44							
	Total	316.44							
25	KSRB13-6.1 : Providing and fixing in position **brass bib cock** of approved quality nominal bore including cost of all materials, labour and HOM with all leads complete as per specifications. (P.93/I.No.13.25 PW, P & IWTD, SOUTH ZONE -SR 2018-19)								
	For Toilet	Each	3				3.00		
							3.00	**254.88**	**764.64**
	Basic Rate	236.00							
	Add Area Weightage 8%	18.88							

		Unit	No.	L	B	D	Qty.	Rate	Amount
	Total	254.88							
								SUB - TOTAL AMOUNT RS.	446068.41
								G.S.T Charges (12%)	53528.21
								Sub total 2	499596.62
								Miscellaneous	403.38
								TOTAL AMOUNT RS.	500000.00

CERTIFICATE :

1. The work spot has been inspected and found to be necessary.
2. The work spot comes under BBMP Limits.
3. The provisions made in the estimate are necessary and minimum.
4. The estimate is based on PW, P & IWTD, BENGALURU CIRCLE - SR 2018 -19.

Assistant Engineer
Ward No.02
BBMP Bangalore

Assistant Executive Engineer
Yelahanka Sub Division
BBMP Bangalore

Executive Engineer
Yelahanka Division
BBMP Bangalore

Administrative Approval

Accorded For BSS in Malleshwaram
Head of A/C P3294
CER NO : 100 Dt: 13.01.2020

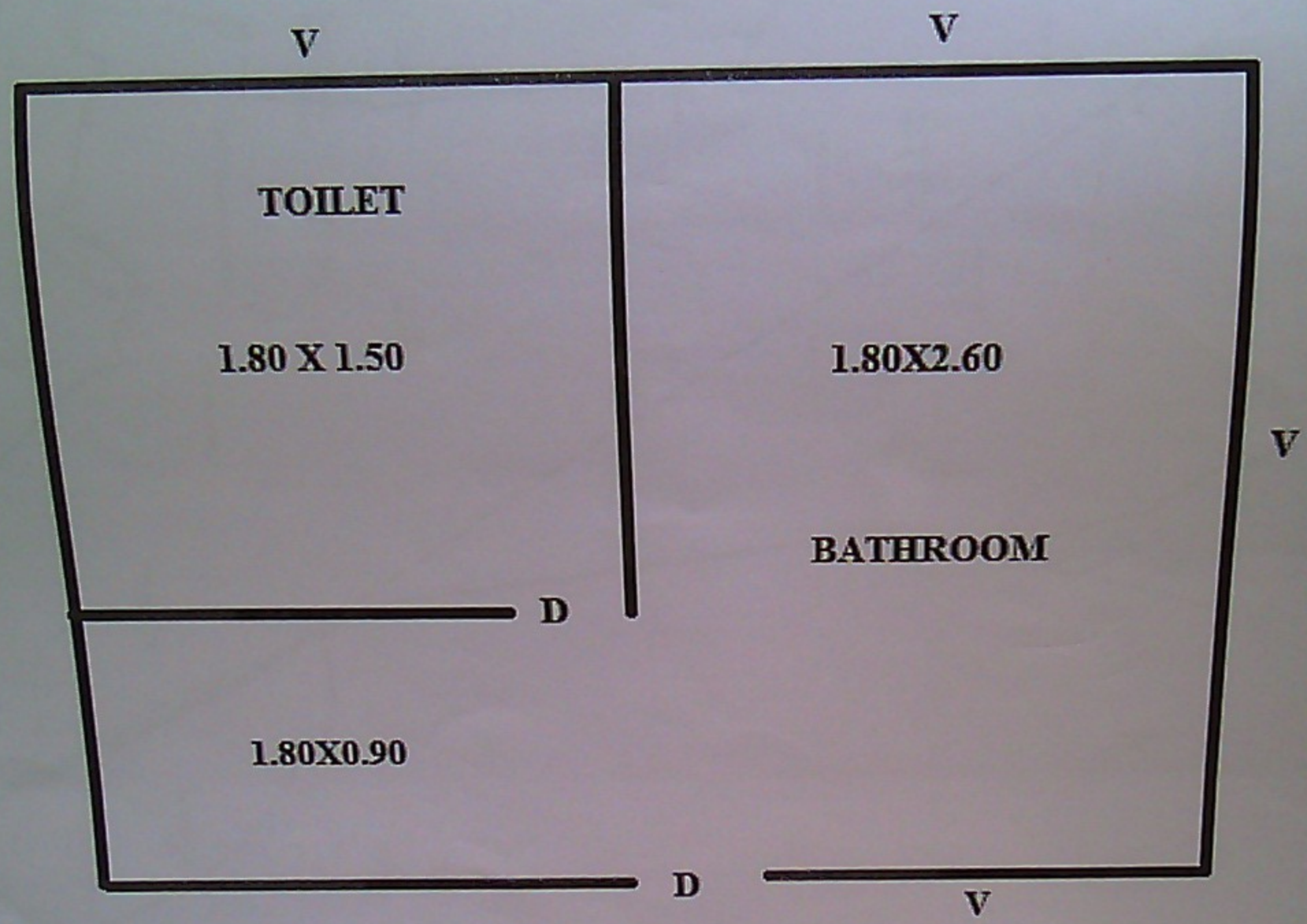
TA

CE (YNK)

TECHNICALLY SANCTIONED FOR Rs. 5.00 lakhs
Rupees Five lakhs only
Under P-3294 2019-20
14th Finance Commission works
Registered as CE ( ) No. 9 9
Subject to conditions contained in enclosed memo EE ( ) No. /9/
Dt. Estimate A/ Sanctioned
EE/YNK/TS/ES/2019-20 No.
Dated 22/01/2020 Rs. 5.00 Lakhs

Executive Engineer

Name of Work: Construction of Public Toilets in Chowdeshwari Ward No-02 of Yelahanka Sub Division



AE-02

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

D = 0.90 X 2.10 m

V = 0.60 X 0.30 m

BRUHAT BANGALORE MAHANAGAR PALIKE
WARD: 2- CHOWDESWARI WARD

150 - YELAHANKA AC

N

TAJ BK

ISRO LAYOUT

VILLAGE BOUNDARY

VILLAGE BOUNDARY

DASARAHALLI MAIN ROAD

HAROHALLI

DASARAHALLI

SRI NIDHI LAYOUT

DASARAHALLI NEW LAYOUT

KHB LAYOUT PHASE I

CRPF QUARTERS

NEW LAYOUT

CRPF CAMPUS

BALAJI LAYOUT

KENCHENAHALLI

RAILWAY LINE

ANJANAPURA

DKD MARVEL LAYOUT

D G STAFF QUARTERS

YALAHANKA KERE

MANI AXLE LAYOUT

RAMAKRISHNEE CALIFORNIA GARDEN LAYOUT

VIJAYAKA LAYOUT

PUTTANAHALLI KERE

PUTTANAHALLI

WHEEL & AXLE PLANT

CHOWDESWARI LAYOUT

KAMAKSHAMMA LAYOUT

FM GOETZE PLANT

BAZZAR ROAD

YELAHANKA

YALAHANKA NEW TOWN

YESHWANTHPURA ROAD

EAST

YALAHANKA SETELLITE TOWN

INDEX

- PROPOSED WARD BOUNDARY
- RIVER/ DRAIN
- RAILWAY LINE
- ROAD

AE-02

NOTIFICATION NO. UDD 59 MLR 2009, DATE 15.07.09